

Puget Sound Climate Related Awards (May 19, 2014)

FY2010/11

Recipient	Project Title	Description	Expected Completion Date
Makah Nation	Establish Real-time Meteorological station in Hoko River Drainage	The Makah Tribe will establish a real-time meteorological station in the Hoko River drainage to increase the accuracy predicting and monitoring Western Strait of Juan de Fuca climatic patterns and local changes of precipitation patterns (annual, intensity, duration) influence on instream flow conditions.	Completed
Dept. of Energy - Pacific Northwest National Laboratory	Puget Sound Modeling and Decision Support System	This project will create an integrated decision support system for the Snohomish River Basin that will improve information on freshwater flow and temperature across different climate and land development scenarios. Accurate modeling of water flows and temperature regimes will provide improved tools for stormwater management.	July 2014
Puget Sound Restoration Fund	Ocean Acidification Monitoring Project	Conduct a 2-year ocean acidification monitoring project to examine whether or not changing water conditions (due to climate change and carbon dioxide levels) are affecting natural shellfish populations in Puget Sound.	August 2011
The Nature Conservancy	"Vulnerability and Resilience of Estuaries and Community Infrastructure to Climate Change"	Coastal habitats and human communities face some of the same vulnerabilities to climate change, including rising sea levels, bigger river floods, and more frequent storms. This project seeks to build technical capacity for understanding estuarine and community vulnerability to storms and climate change and to develop tools to communicate that technical information in an accessible way.	June 2013
Suquamish Tribe	Assessing and Preparing for Impacts of Ocean Acidification on Dungeness Crab in the PNW	This project is focusing on how analyzing how waters with low dissolved oxygen (DO) and low pH (a byproduct of climate change) threaten many aquatic species including Dungeness crab.	September 2014
Tulalip Tribes	Baseline Budgets and Goals to Increase Carbon, Nitrogen and Water Storage in the Snohomish River Basin	This project is the first year of a two year project that is developing Carbon and Nitrogen budgets in the Snohomish Basin and identifying a carbon augmentation goal for the Basin, based on an integrated model of the Snohomish Basin. It will provide an analysis of ecosystem service benefits and tradeoffs for the Tulalip Tribes under different management scenarios- and addressing the impacts of climate change- for the Snohomish Basin.	September 2014
Sauk-Suiattle Indian Tribe	Research Potential Impacts of Climate Warming on Fisheries and Human Infrastructure	This project is a multidisciplinary study to assess the potential ecological impacts of climate warming on fishery restoration and human community infrastructure in the Sauk and Suiattle watersheds.	September 2014
Washington Recreation and Conservation Office	Acquisition and Restoration of High-Priority Puget Sound Habitat	The Grant Program has contributed funds to 15 restoration or acquisition projects that protect or restore high priority nearshore habitats, allowing for adaptation and resiliency to climate change. These projects include the acquisition of bluff-backed beaches, restoration of tidally influenced river deltas, and removal of shoreline armoring. Projects will provide opportunities for landward movement of coastal ecosystems subject to dislocation by sea-level rise and other climate change impacts.	June 2015
Various Tribes	Develop Climate Action Plans	Tribes including the Tulalip, Swinomish, Port Gamble, Jamestown, Samish, and others will develop vulnerability assessment and adaptation plans.	On-going

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FY 2012

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Snohomish County Dept. of Public Works	Snohomish Basin Watershed Characterization and Protection	The Snohomish Basin is a major drainage in Puget Sound. Land use pressures and climate change threaten to overwhelm the long-term viability of fish populations, farms and forests. Snohomish County, King County, the Tulalip Tribes will develop a protection strategy to address these challenges.	June 2014
WA Dept of Natural Resources	20% More Eelgrass by 2020: Restoration Site Identification, and Investigating Restoration Barriers	This project will locate areas within Puget Sound and the Strait of Juan de Fuca suitable for successful eelgrass restoration, with specific focus on identifying sites that would be conserved from future anthropogenic disturbances and resilient to climate change.	September 2014
Friends of San Juans	Protecting Ecosystem Functions with Sea Level Rise and Cumulative Effects Management Tools	This project will: analyze existing regulations to identify areas where climate change and cumulative impacts research can be applied to improve their effectiveness; conduct scientific research on erosion rates, cumulative effects of shoreline armoring on forage fish spawning habitat, and tidal elevation of surf smelt spawning; and disseminate results to managers, decision makers, and others.	January 2014
Futurewise	Puget Sound Shoreline Master Program Improvement	A critical component of this project is an incentives toolkit that will allow local jurisdictions to implement incentives programs that will prepare communities for <i>sea level rise</i> by encouraging shoreline stewardship, habitat-maintaining shoreline development, and protections of shoreline habitat.	March 2014
Sauk-Suiattle Indian Tribe	Research Potential Impacts of Climate Warming on Fisheries and Human Infrastructure	This project will be the second year of a multidisciplinary study to assess the potential ecological impacts of climate warming on fishery restoration and human community infrastructure in the Sauk and Suiattle watersheds.	September, 2015
University of Washington	Ocean Acidification Blue Ribbon Panel	WA Department of Ecology will fund the Ocean Acidification Blue Ribbon Panel. The Panel was convened under the auspices of the Washington Shellfish Initiative. The Panel will point the way to advancing our scientific understanding of the effects of ocean acidification and will help shape our response. (Additional 15K non Puget Sound funds were put to this project)	Completed
Tulalip Tribes	Monitoring Ecosystem Response to Restoration and Climate Change in the Snohomish River Estuary	The proposed work continues and extends estuary-wide biological monitoring with particular emphasis on juvenile Chinook salmon (<i>Oncorhynchus tshawytscha</i>), and initiates long-term monitoring of hydrology (temperature, salinity, and water levels) and elevation and sediment dynamics at selected sites across the estuary.	September 2015

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FY2013

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Nooksack Indian Tribe	Climate change, glacier ablation, watershed hydrology, physical habitat, and salmonid population protection and recovery.	Climate change has caused and will continue to alter timing, magnitude, and quality of the glacier-fed Nooksack River streamflows and has the potential to dramatically affect local salmon populations, their habitats, and habitat-forming processes. This grant supports a field and model-based investigation of the relationship of climate change on glacier ablation, watershed hydrology, physical habitat, and salmonid population protection and recovery.	December, 2015
Swinomish Indian Tribe	Skagit Climate Consortium/ Skagit River Stream flows and Salmon	Studies on how climate change will affect stream flows in salmon bearing tributaries to the Skagit River and to Tribal resources dependent on the maintenance of this flow. Establish Skagit Climate Consortium and hold annual workshop on Skagit Climate Science	September, 2015
Puget Sound Partnership	Integrated Marine Pressures Assessment	The Puget Sound Partnership will coordinate a multi-scale Sound-wide assessment of pressures on the Puget Sound ecosystem. The risk assessment will incorporate climate change impacts and their influence on Puget Sound, as well. Will include an assessment of pressures on the Sound's marine and nearshore resources and for freshwater and terrestrial resources (habitats and systems and species).	July 2014
Western Washington University	Salish Sea Ecosystem Conference	Host the October 2014 Salish Sea Ecosystem Conference in Seattle. This conference will include several plenary sessions on climate change and adaption as well as a hosted poster session that included climate change issues.	October 2014
University of Washington	Time of Emergence	Developing tools to identify climate signals from a range of climate factors. Will include visualization tools and analytical tools.	December 2014